

CONTENTS

Authentic standards for the reductive-cleavage method. The positional isomers of partially methylated and acetylated or benzoyleated 1,5-anhydro-D-fucitol L.E. Elvebak II, T. Schmitt and G.R. Gray (Minneapolis, MN, USA)	1
Calorimetric study of the glass transition occurring in fructose solutions S. Ablett, M.J. Izzard, P.J. Lillford (Sharnbrook, UK), I. Arvanitoyannis and J.M.V. Blanshard (Loughborough, UK)	13
Conformational analysis of nitrilium intermediates in glycosylation reactions I. Braccini, C. Derouet, J. Esnault, C.H. Du Penhoat, J.-M. Mallet, V. Michon and P. Sinaÿ (Paris, France)	23
Mapping of the spatial variation in alginate concentration in calcium alginate gels by magnetic resonance imaging (MRI) K. Potter, T.A. Carpenter and L.D. Hall (Cambridge, UK)	43
A new and rapid method for carrageenan identification by FT IR diffuse reflectance spectroscopy directly on dried, ground algal material T. Chopin and E. Whalen (Saint John, NB, Canada)	51
Chemical behavior of benzylidene acetal groups bridging the contiguous glucose residues in malto-oligosaccharide derivatives N. Sakairi and H. Kuzuhara (Saitama, Japan)	61
A synthetic approach to polysialogangliosides containing α -sialyl-(2 \rightarrow 8)-sialic acid: total synthesis of ganglioside GD ₃ H. Ishida (Gifu, Japan), Y. Ohta, Y. Tsukada (Uji, Japan), M. Kiso and A. Hasegawa (Gifu, Japan)	75
Solid-phase synthesis and conformational studies of glycosylated derivatives of helper-T-cell immunogenic peptides from hen-egg lysozyme M. Elofsson, S. Roy, B. Walse and J. Kihlberg (Lund, Sweden)	89
Synthesis of 3-deoxyaldulosonic acid esters by one-carbon chain extension of glycal-derived lactone precursors D. Horton, M. Issa, W. Priebe and M.L. Sznajdman (Columbus, OH, USA)	105
Synthesis of the monodeoxy derivatives of 2-(trimethylsilyl)ethyl β -lactoside T. Ekberg and G. Magnusson (Lund, Sweden)	119
Synthesis of Kdo- α -glycosides of lipid A derivatives H. Rembold and R.R. Schmidt (Konstanz, Germany)	137
Synthesis of the methyl glycosides of a tri- and a tetra-saccharide related to heparin and heparan sulphate M. Nilsson, C.-M. Svahn and J. Westman (Stockholm, Sweden)	161

Synthetic approaches to 2-deoxyglycosyl phosphates	
J. Niggemann, T.K. Lindhorst, M. Walfort, L. Laupichler, H. Sajus and J. Thiem (Hamburg, Germany)	173
Studies on the physicochemical properties of native, defatted, and heat-moisture treated pigeon pea (<i>Cajanus cajan</i> L) starch	
R. Hoover, G. Swamidas and T. Vasanthan (St. John's, NF, Canada)	185
"Chitin Leash": a polysaccharide heterobifunctional cross-linking agent which can be cleaved by lysozyme	
K. Guan, D.J. Cecchini and R.W. Giese (Boston, MA, USA)	205
Structure of the K10 capsular antigen from <i>Escherichia coli</i> O11:K10:H10, a polysaccharide containing 4,6-dideoxy-4-malonylamino-D-glucose	
V. Sieberth, B. Jann and K. Jann (Freiburg-Zähringen, Germany)	219
Substrate conversion and product inhibition of mannuronate lyase from <i>Halotia</i>	
K. Østgaard and B. Larsen (Trondheim, Norway)	229
UV-visible absorption, fluorescence, and optical rotatory study of the amylose-Rose Bengal complex	
K. Polewski and W. Maciejewska (Poznań, Poland)	243
FT-IR and Raman spectroscopy study of the amylose-Rose Bengal complex	
W. Maciejewska, K. Polewski and M. Grundwald-Wyspiańska (Poznań, Poland)	253
Structures of branched and linear molecules of rice amylose	
Y. Takeda, S. Tomooka and S. Hizukuri (Kagoshima, Japan)	267
Structure of the amylopectin fraction of amylomaize	
C. Takeda, Y. Takeda and S. Hizukuri (Kagoshima, Japan)	273
Structural elucidation of the capsular polysaccharide of <i>Escherichia coli</i> serotype K101 by high resolution NMR spectroscopy	
M.R. Grue, H. Parolis and L.A.S. Parolis (Grahamstown, South Africa)	283
Structural studies of the extracellular polysaccharide from <i>Butyrivibrio fibrisolvens</i> strain X6C61	
M. Andersson, S. Ratnayake (Stockholm, Sweden), L. Kenne (Uppsala, Sweden), L. Ericsson (Peoria, IL, USA) and R.J. Stack (Alameda, CA, USA)	291
The molecular characterisation of the polysaccharide gum from <i>Acacia senegal</i>	
M.E. Osman, A.R. Menzies, P.A. Willaims, G.O. Phillips (Deeside, UK) and T.C. Baldwin (Norwich, UK)	303
Structural studies of the saccharide part of the cell envelope lipopolysaccharide from <i>Haemophilus influenzae</i> strain AH1-3 (<i>lic3</i> +)	
E.K.H. Schweda, O.E. Hegedus, S. Borrelli, A.A. Lindberg (Huddinge, Sweden), J.N. Weiser, D.J. Maskell and E.R. Moxon (Oxford, UK)	319
Notes	
Degree of deacetylation of chitosan using conductometric titration and solid-state NMR	
L. Raymond, F.G. Morin and R.H. Marchessault (Montreal, PQ, Canada)	331

The systematic use of negative nuclear Overhauser constraints in the determination of oligosaccharide conformations: application to sialyl-Lewis X M.R. Wormald and C.J. Edge (Oxford, UK)	337
A novel synthesis of 4-deoxy-D- <i>lyxo</i> -hexose ("4-deoxy-D-mannose") from 1,6-anhydro-3,4-dideoxy- β -D- <i>glycero</i> -hex-3-enopyranose-2-ulose (levoglucosenone) K. Matsumoto, T. Ebata, K. Koseki, K. Okano, H. Kawakami and H. Matsushita (Kanagawa, Japan)	345
Short synthesis of allyl 2-acetamido-2-deoxy-3,6-di-O-(α -L-fucopyranosyl)- β -D-glucopyranoside C. Steindl, P. Kosma, L. März (Vienna, Austria) and A. Neszmélyi (Budapest, Hungary)	353
Stereospecific synthesis of C-(2-amino-2-deoxy- β -D-glucosyl) compounds by Wittig-type olefination of D-glucosamine derivatives A. Mbongo, C. Fréchou, D. Beaupère, R. Uzan and G. Demailly (Amiens, France)	361
Stereoselective synthesis of deoxyhexopyranosides and deoxyhexopyranosid-2-uloses from 2-hydroxyglycal-derived precursors O. Varela, G.M. De Fina and R.M. De Lederkremer (Buenos Aires, Argentina)	371
Synthesis and activity towards yeast α -glucosidase of 1,5-dideoxy-1,5-imino-L-iditol (1-deoxy-L-idonojirimycin) P.A. Fowler, A.H. Haines, R.J.K. Taylor (Norwich, UK), E.J.T. Chrystal and M.B. Gravestock (Bracknell, UK)	377
Erratum	C1
Book review	C3
Author index	C5
Subject index	C7
Contents	C11